PATENT COOPERATION TREATY

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REC'D 2 2 OCT 2004

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TP102327/UH		nt's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/FI 03/00586			International filing date (day/month/year) 31.07.2003		h/year)	Priority date (day/month/year) 31.07.2002	
Internation B07B1/4		nt Classification (IPC) or	tooth national classification and	d IPC			
	MINE	RALS (TAMPERE)	OY et al.				
1. This	s interna hority a	ational preliminary exa nd is transmitted to th	umination report has been pe applicant according to Ar	prepare ticle 36	ed by this Inter 3.	national Preliminary Examining	
2. This	s REPO	RT consists of a total	of 5 sheets, including this	cover	sheet.		
	been	amended and are the		r sheet	s containing re	n, claims and/or drawings which have citifications made before this Authority ne PCT).	
The	ese anno	exes consist of a total	of sheets.				
					Ca	-001	
3. This	s report	contains indications n	elating to the following Item	ns:	1 9.	11. 7003	
1	_	Basis of the opinion				(A)	
i	-	Priority					
111		•	opinion with regard to nov	alty in	ventive eten er	ad industrial applicability	
١٧		Lack of unity of inven		city, iii	venuve step at	id madamar applicability	
V	\boxtimes	Reasoned statement	•	regard ment	i to novelty, inv	rentive step or industrial applicability;	
VI		Certain documents ci	ted				
VII		Certain defects in the	international application				
VIII		Certain observations	on the international applica	ition			
Date of sub	bmission	of the demand	0	ate of o	completion of this	s report	
23.02.2004				21.10.2004			
Name and mailing address of the international				Authorized Officer			
preliminary examining authority:						The same of the sa	
European Patent Office D-80298 Munich			. ,	/iilitzer	r. E	اً الله ا	
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INTERNATIONA	AL PRELIMINARY
FXAMINATION	REPORT

International application No.

PCT/FI 03/00586

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	Bas	sis of the report		•							
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):										
	Des	scription, Pages									
	1-1	7	as published								
	Cla	ims, Numbers									
	1-14	4	as published								
	Dra	wings, Sheets									
	1/7-	7/7	as published								
2.	. With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.										
	The	se elements were av	railable or furnished to this Authority in the following language: , which is:								
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).								
		the language of publ	age of publication of the international application (under Rule 48.3(b)).								
the language of a translation furnished for the purposes of international preliminary examination Rule 55.2 and/or 55.3).											
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:											
		contained in the inte	mational application in written form.								
☐ filed together with the intern			e international application in computer readable form.								
			ntly to this Authority in written form.								
		furnished subsequer	ntly to this Authority in computer readable form.								
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosion in the international application as filed has been furnished.									
		☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.									
1.	The	amendments have r	esulted in the cancellation of:								
		the description,	pages:								
		the claims,	Nos.:								
		the drawings,	sheets:								

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI 03/00586

5.
This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-14

Inventive step (IS)

No: Claims Yes: Claims

1-14

No: Claims

Industrial applicability (IA)

Yes: Claims No: Claims 1-14

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY International application No. PCT/FI 03/00586 EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document/S/:

D1: US-5 248 042 D2: EP-0 598 293

The document D1 is regarded as being the closest prior art to the subject-matter of claims 1 and 14, and shows a method of controlling a screening machine and a screening machine according to the preambles of claims 1 and 14 respectively.

Document D2 which describes also a method and a machine corresponding to the preamble of claims 1 and 14 respectively.

The subject-matter of claims 1 and 14 differs from this known documents D1 or D2 by the features recited in the respective characterizing clauses.

The subject-matter of claims 1 and 14 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention is to optimize the feeding speed of the feeding means in such a manner that the maximum screening capacity of the screening machine can be obtained and the products produced can be as clean as possible.

The solution to this problem proposed in claims 1 and 14 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

Document D1 describes a screening method and screening machine comprising a pressure sensor which indicates the resistance to turning of the drum and a control system to temporarily diminish the delivery of the material to the drum. The control means can also stop the feeding conveyor temporarily, upon it being sensed in the hydraulic system that there is excess pressure on the drive motor for rotating the drum.

D1 does however not describe the measurement of an upper an lower preset value of the variable dependent on the amount of material on the screen surface and controlling accordingly the speed of the feeding means.

INTERNATIONAL PRELIMINARY International application No. PCT/FI 03/00586 EXAMINATION REPORT - SEPARATE SHEET

Document D2 describes a method and machine for screening wherein the screen drive motor is controlled in accordance with the speed of a star feed valve.

D2 does also not describe the measurement of an upper an lower preset value of the variable dependent on the amount of material on the screen surface and controlling accordingly the speed of the feeding means.

Consequently, the subject matter of claims 1 and 14 is considered to involve an inventive step (Article 33(3) PCT) because no document cited in the search report suggests to control the speed of the feeding means depending on the measurement of an upper an lower preset value of a variable dependent on the amount of material on the screen surface.

Claims 2-13 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

The subject matter of claims 1 to 14 is industrially applicable in the field of screening materials (Article 33(4) PCT).

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